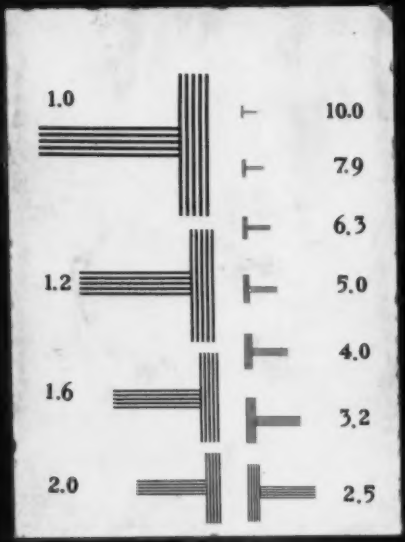
RESOLUTION CHART



100 MILLIMETERS

INSTRUCTIONS Resolution is expressed in terms of the lines per millimeter recorded by a particular film under specified conditions. Numerals in chart indicate the number of lines per millimeter in adjacent "T-shaped" groupings.

In microfilming, it is necessary to determine the reduction ratio and multiply the number of lines in the chart by this value to find the number of lines recorded by the film. As an aid in determining the reduction ratio, the line above is 100 millimeters in length. Measuring this line in the film image and dividing the length into 100 gives the reduction ratio. Example: the line is 20 mm. long in the film image, and 100/20 = 5.

Examine "T-shaped" line groupings in the film with microscope; and note the number adjacent to finest lines recorded sharply and distinctly. Multiply this number by the reduction factor to obtain resolving power in lines per millimeter. Example: 7.9 group of lines is clearly recorded while lines in the 10.0 group are not distinctly separated. Reduction ratio is 5, and 7.9 x 5 = 39.5 lines per millimeter recorded satisfactorily. 10.0 x 5 = 50 lines per millimeter which are not recorded satisfactorily. Under the particular conditions, maximum resolution is between 39.5 and 50 lines per millimeter.

Resolution, as measured on the film, is a test of the entire photographic system, including lens, exposure, processing, and other factors. These rarely utilize maximum resolution of the film. Vibrations during exposure, lack of critical focus, and exposures yielding very dense negatives are to be avoided.

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INDEX

Air Pioneer, A Danish. *John Foltmann* 325
Akershus Castle. *Arnstein Arneberg* 144
American Studies in Norway. *Richard Beale Davis* 348
Andersson, Dan—Wild Geese. A Poem 265
Apsler, Alfred—"Little Norway" on the Columbia River 63
Arneberg, Arnstein—Akershus Castle 144
Art:
- Borg, Carl Oscar. *Albin Widén* 125
- Borge, Victor: Showman Extraordinary. *Inez Lind* 354
- Gunnebo, The Mellow Charm of. *Holger Lundbergh* 57
- Jónsson, Ásgrímur. *Benedikt Gröndal* 230
- Swedish Theater in Helsingfors, The. *Ingrid Quarnström* 27
- Tapestries of Gudbrandsdal, The. *Haavard Rostrup* 157
- Thalia in Reykjavík. *Einar Haugen* 335
- Werenskiold, Erik. *Leif Østby* 38

Ásgrímur Jónsson. *Benedikt Gröndal* 230
Atomic Energy Center, The Dutch-Norwegian. *Viking Olver Eriksen* 221
Baltic, The Troubled. *Gene W. Glenn* 137
Beck, Richard—Stephan G. Stephansson 151
Bergman, Bo—Fate. A Poem 236
Biography:
- Borg, Carl Oscar. *Albin Widén* 125
- Borge, Victor: Showman Extraordinary. *Inez Lind* 354
- Dennett, Raymond 142
- Jónsson, Ásgrímur. *Benedikt Gröndal* 230
- Laxness, Halldór Kiljan. *Sigurður A. Magnússon* 13
- Stephansson, Stephan G. *Richard Beck* 151
- Werenskiold, Erik. *Leif Østby* 38

Boberg, Inger Margrethe—Saxo's Hamlet 50
Book Notes 96, 192, 287, 400
Book Reviews:
- Bjorn, Thyra Ferré—Papa's Wife 94
- Blegen, Theodore C.—Land of Their Choice 398
- Christensen, C. L.—Man's Play—The Eternal Attempt 96
- Fleisher, Wilfrid—Sweden: The Welfare State 186
- Hanssen, Hans Peter—Diary of a Dying Empire 92
- Heckscher, Eli F.—An Economic History of Sweden 90
- Heyerdahl, Thor; Søren Richter; Hj. Riiser-Larsen—Great Norwegian Expeditions 395
- Holand, Hjalmar R.—Explorations in America before Columbus 187
- Holberg, Ludvig—Selected Essays 285
- Hollander, Lee M.—The Saga of the Jómsvíkings 91
- Howarth, David—We Die Alone 188
- Ibsen, Henrik—Peer Gynt 284
- Leach, Henry Goddard—My Last Seventy Years 395

Lindal, Walter Jacobson—The Saskatchewan Icelanders 190
Lindemann, Kelvin—The Red Umbrellas 190
Lindström, Rune—The Play of Heaven 189
Maass, Edgar—The Magnificent Enemies 286
Martinson, Harry—The Road 186
Moberg, Vilhelm—When I Was a Child 397
Mortensen, Sverre and Per Vogt—One Hundred Norwegians 95
Nielsen, Ernest D.—N. F. S. Grundtvig 187
Nielsen, Helen—Stranger in the Dark 95
Platt, Raye R.—Finland and Its Geography 191
Rodnick, David—The Norwegians 191
Rustow, Dankwart A.—The Politics of Compromise 189
Sørensen, Max and Niels J. Haagerup—Denmark and the United Nations 285
Streeter, Edward—Merry Christmas, Mr. Baxter 399
Strindberg, Six Plays of 93
Wallenius, K. M.—Men from the Sea 93
Wallström, Tord—A Wayfarer in Central America 287
Books for American Libraries. 1955 Selections.
Denmark, Iceland, Norway, Sweden 374
Borg, Carl Oscar. *Albin Widén* 125
Borge, Victor: Showman Extraordinary. *Inez Lind* 354
Carl Oscar Borg. *Albin Widén* 125
Christiansen, Tage—Denmark's Village Churches 250
Churches, Denmark's Village. *Tage Christiansen* 250
Danish Air Pioneer, A. *John Foltmann* 325
Davis, Richard Beale—American Studies in Norway 348
Denmark:
Books for American Libraries. 1955 Selections 374
Borge, Victor: Showman Extraordinary. *Inez Lind* 354
Danish Air Pioneer, A. *John Foltmann* 325
Denmark's Village Churches. *Tage Christiansen* 250
Five Eskimo Poems 163
Greenland's Lead Mountain. *Per Kampmann* 32
Saxo's Hamlet. *Inger Margrethe Boberg* 50
School by the Sound, The. *Henry Goddard Leach* 237
The Quarter's History 77, 176, 270, 385
Denmark's Village Churches. *Tage Christiansen* 250
Dennett, Raymond: New ASF President 142
Dutch-Norwegian Atomic Energy Center, The. *Viking Olver Eriksen* 221
Engström, Albert:
Kiruna Church Bell. A Poem 358
Moose. A Short Story 168
Erik Werenskiold. *Leif Østby* 38
Eriksen, Viking Olver—The Dutch-Norwegian Atomic Energy Center 221
Eskimo Poems, Five 163
Fate. A Poem. *Bo Bergman* 236
Finland:
The Swedish Theater in Helsingfors. *Ingrid Quarnström* 27

Five Eskimo Poems 163
Foltmann, John—A Danish Air Pioneer 325
Glenn, Gene W.—The Troubled Baltic 137
Granit, Ragnar, and the Sense of Ideas. *Stephen E. Seadler* 341
Greenland's Lead Mountain. *Per Kampmann* 32
Gröndal, Benedikt—Ásgrímur Jónsson 230
Gunnebo, The Mellow Charm of. *Holger Lundbergh* 57
Halldór Kiljan Laxness. Iceland's First Nobel Prize Winner. *Sigurður A. Magnússon* 13
Haugen, Einar—Thalia in Reykjavík 335
History:
Akershus Castle. *Arnstein Arneberg* 144
Gunnebo, The Mellow Charm of. *Holger Lundbergh* 57
Saxo's Hamlet. *Inger Margrethe Boberg* 50
Shetland's Viking Fire Festival. *E. R. Yarham* 319
The Quarter's History. Denmark, Iceland, Norway, Sweden 77, 174, 270, 385
Iceland:
Books for American Libraries. 1955 Selections 375
Jónsson, Ásgrímur. *Benedikt Gröndal* 230
Laxness, Halldór Kiljan. *Sigurður A. Magnússon* 13
Proposal, The. A Short Story. *Thorsteinn Stefánsson* 371
Stephansson, Stephan G. *Richard Beck* 151
Thalia in Reykjavík. *Einar Haugen* 335
The Quarter's History 80, 177, 272, 387
Illustrations:
Air Pioneer, A Danish 325-333
Akershus Castle 144-149
Atomic Energy Center at Kjeller, The 220
"Bergensfjord" 275
Borg, Carl Oscar 127
Borg, Carl Oscar, Oil Paintings and Water-Colors by 128-135
Borge, Victor 355
Denmark's Village Churches 251-254
Dennett, Raymond 142
Dutch-Norwegian Atomic Energy Center, The 220-228
Ellehammer, J. C. H. 327
Ericsson, Nils 361
"Girl With the Broken Sword, The". Statue by Ivar Johansson 87
Granit, Ragnar 343
Greenland's Lead Mountain 32-36
Gunnebo 57-61
Hammarskjöld, Dag, Presented for an Honorary Degree by Walter W. Gustafson 267
Hansen, Poul 271
Ibsen, Henrik. Detail of Painting by Erik Werenskiold 45
India, Outline Map of 21
Jónsson, Ásgrímur 231
Jónsson, Ásgrímur, Paintings and Drawings by 232-235

Laxness, Halldór Kiljan 12
Lindström, Erik 28
"Little Norway" on the Columbia River 64-67
Norway's Aid to India 20-25
Pihlgren, May 30
Princess Astrid of Norway 171
Railways, The Swedish State 359-369
Roosevelt, Franklin D. Bust by Jo Davidson 386
Royalty, British and Swedish 279
Schauman, Runar 29
School by the Sound, The 237-239
Shetland's Viking Fire Festival 321-323
Stephansson, Stephan G. 152
Stephansson, Stephan G., Monuments to 154-155
Swedish Theater in Helsingfors, The 27
Tapestry from Gudbrandsdal, A. 159
Thalia in Reykjavík 335-339
The Olympic Flame in Stockholm Stadium 281
The Public Prosecutor of Österköping, Drawings by Axel Andersen for 256-259
Those Brave Norwegians. Drawings by Axel Andersen for 69, 71
Thunder Clouds, Arizona. Water-Color by Carl Oscar Borg ..... Facing 125
Wallenberg, Raoul 243
Werenskiold, Erik 39
Werenskiold, Erik, Paintings and Drawings by 38-48
World Clock, Jens Olsen's 79
Wrede, Gerda 30

International Relations:
American Studies in Norway. *Richard Beale Davis* 348
Mystery of a War Hero, The. *Joseph L. Lichten* 241
Norden Association, The. *Frantz W. Wendt* 245
Norway's Aid to India. *Harald U. Sverdrup* 19
The Dutch-Norwegian Atomic Energy Center. *Viking Olver Eriksen* 221
The Troubled Baltic. *Gene W. Glenn* 137

Jónsson, Ásgrímur. *Benedikt Gröndal* 230
Kampmann, Per—Greenland's Lead Mountain 32
Kiruna Church Bell. A Poem. *Albert Engström* 358
Laxness, Halldór Kiljan. *Sigurður A. Magnússon* 13
Leach, Henry Goddard—The School by the Sound 237
Lichten, Joseph L.—The Mystery of a War Hero 241
Lieberman, Elias—The Taciturn Trolls. A Poem 68
Lind, Inez—Victor Borge: Showman Extraordinary 354

Literature:
American Studies in Norway. *Richard Beale Davis* 348
Books for American Libraries. Denmark, Iceland, Norway, Sweden. 1955 Selections 374
Laxness Halldór Kiljan. *Sigurður A. Magnússon* 13
Saxo's Hamlet. *Inger Margrethe Boberg* 50
Stephansson, Stephan G. *Richard Beck* 151

"Little Norway" on the Columbia River. *Alfred Apsler* 63
Lucia, Sancta. A Traditional Swedish Christmas Hymn 318
Lundbergh, Holger—The Mellow Charm of Gunnebo 57
Magnusson, Sigurður A.—Halldór Kiljan Laxness 13
Malmstrom, Vincent H.—The Swedish State Railways 359
Mellow Charm of Gunnebo, The. *Holger Lundbergh* 57
Moberg, Vilhelm—The Public Prosecutor of Österköping. A Short Story 256
Moose. A Short Story. *Albert Engström* 168
Music Notes 99, 196, 289, 401
Mystery of a War Hero, The. *Joseph L. Lichten* 241
Norden Association, The. *Frantz W. Wendt* 245
Norway:
- Akershus Castle. *Arnstein Arneberg* 144
- American Studies in Norway. *Richard Beale Davis* 348
- Books for American Libraries. 1955 Selections 378
- Norway's Aid to India. *Harald U. Sverdrup* 19
- Shetland's Viking Fire Festival. *E. R. Yarham* 319
- Tapestries of Gudbrandsdal, The. *Haavard Rostrup* 157
- The Dutch-Norwegian Atomic Energy Center. *Viking Olver Eriksen* 221
- The Quarter's History 81, 179, 274, 389
- Those Brave Norwegians. A Short Story. *Birger Vikström* 69
- Werenskiold, Erik. *Leif Østby* 38

Norway's Aid to India. *Harald U. Sverdrup* 19
Østby, Leif—Erik Werenskiold 38
Poems:
- Andersson, Dan—Wild Geese 265
- Bergman, Bo—Fate 236
- Engström, Albert—Kiruna Church Bell 358
- Five Eskimo Poems 163
- Lieberman, Elias—The Taciturn Trolls 68
- Sancta Lucia 318

Proposal The. A Short Story. *Thorsteinn Stefánsson* 371
Public Prosecutor of Österköping, The. A Short Story. *Vilhelm Moberg* 256
Quarnström, Ingrid—The Swedish Theater in Helsingfors 27
Quarter's History, The 77, 174, 270, 385
Ragnar Granit and the Sense of Ideas. *Stephen E. Seadler* 341
Railways, The Swedish State. *Vincent H. Malmstrom* 359
Raymond Dennett: New ASF President 142
Rostrup, Haavard—The Tapestries of Gudbrandsdal 157
Sancta Lucia. A Traditional Swedish Christmas Hymn 318
Saxo's Hamlet. *Inger Margrethe Boberg* 50
Scandinavians in America 74, 170, 266, 382
School by the Sound, The. *Henry Goddard Leach* 237
Science:
- Danish Air Pioneer, A. *John Foltmann* 325
- Ragnar Granit and the Sense of Ideas. *Stephen E. Seadler* 341
- The Dutch-Norwegian Atomic Energy Center. *Viking Olver Eriksen* 221

Seadler, Stephen E.—Ragnar Granit and the Sense of Ideas 341

Shetland's Viking Fire Festival. *E. R. Yarham* 319
Short Stories:
Engström, Albert—Moose 168
Moberg, Vilhelm—The Public Prosecutor of Österköping 256
Stefánsson, Thorsteinn—The Proposal 371
Vikström, Birger—Those Brave Norwegians 69
Stefánsson, Thorsteinn—The Proposal. A Short Story 371
Stephansson, Stephan G. *Richard Beck* 151
Sverdrup, Harald U.—Norway's Aid to India 19
Sweden:
Baltic, The Troubled. *Gene W. Glenn* 137
Books for American Libraries. 1955 Selections 380
Borg, Carl Oscar. *Albin Widén* 125
Granit, Ragnar, and the Sense of Ideas. *Stephen E. Seadler* 341
Gunnebo, The Mellow Charm of. *Holger Lundbergh* 57
Moose. A Short Story. *Albert Engström* 168
Mystery of a War Hero, The. *Joseph L. Lichten* 241
The Public Prosecutor of Österköping. A Short Story. *Vilhelm Moberg* 256
The Quarter's History 86, 182, 278, 392
The Swedish State Railways. *Vincent H. Malmstrom* 359
Those Brave Norwegians. A Short Story. *Birger Vikström* 69
Swedish State Railways, The. *Vincent H. Malmstrom* 359
Swedish Theater in Helsingfors, The. *Ingrid Quarnström* 27
Taciturn Trolls, The. A Poem. *Elias Lieberman* 68
Tapestries of Gudbrandsdal, The. *Haavard Rostrup* 157
Thalia in Reykjavík. *Einar Haugen* 335
Those Brave Norwegians. A Short Story. *Birger Vikström* 69
Troubled Baltic, The. *Gene W. Glenn* 137
Victor Borge: Showman Extraordinary. *Inez Lind* 354
Vikström, Birger—Those Brave Norwegians. A Short Story 69
Wendt, Frantz W.—The Norden Association 245
Werenskiold, Erik. *Leif Østby* 38
Widén, Albin—Carl Oscar Borg 125
Wild Geese. A Poem. *Dan Andersson* 265
Yarham, E. R.—Shetland's Viking Fire Festival 319